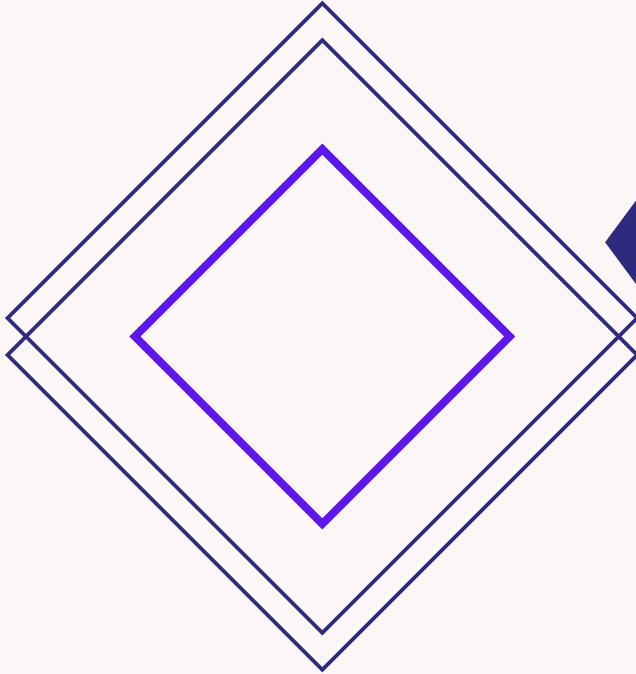


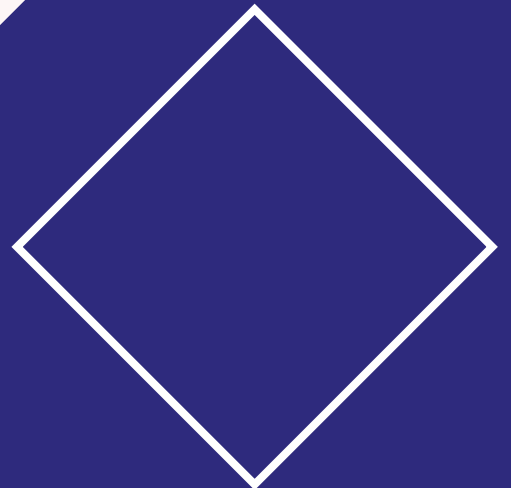


Indian Institute of Technology Madras  
Office of Alumni and Corporate Relations

# Celebrating the Generosity of Dr. Pinakin C. Chaubal



**Impact of Your Giving in 2024**



# DIRECTOR'S MESSAGE



**Prof. V. Kamakoti**  
**Director, IIT Madras**

Greetings!

IIT Madras continues to retain her top position for the ninth consecutive year, in the National Institute Ranking Framework, thanks to the world-class research, unwavering dedication and creative mindset of its faculty and students. The contribution and support of Alumni and well-wishers like you have crucially helped this standing and stature.

Our achievements in research, education, innovation, and entrepreneurship have also earned us the recognition of an 'Institute of Eminence' as well as the top position in the Atal Innovation Ranking from the Government of India.

IIT Madras is making an indelible mark in promoting and providing education to students from the length and breadth of India to areas beyond Indian territory, through her initiatives in rural developmental educational programs, international, interdisciplinary M.Tech courses, and online diploma courses. The popularity and reach of our online courses can be gauged by the fact that around 25000 students in ages ranging from 17 to 82, have enrolled for these courses across national boundaries, and about 30% are from rural India. The institute, in a first-ever initiative by an IIT, has consolidated its position on the world map by establishing her international campus in Zanzibar, Africa where about 45 students have been admitted to different programs.

Innovation and entrepreneurship are ingrained in all our endeavours – our ambitious ventures in rocket and space explorations, the development of lab-grown diamonds, hyperloop, the Brain Research Centre etc, are a testimony to this. The start-up ecosphere is also a reflection of this spirit, wherein last year, 70 startups came to fruition, successfully nurtured by our centres of excellence, the Centre for Innovation, Nirmaan – the pre-incubator, the Incubation Cell, technology centres such as 'IITM-Pravartak' at the IIT Madras Research Park and others. This year, our target is to incubate at least a 100 Start-ups in various sectors. It is expected that at least 20% of the passing out students will be proud CXOs of their own ventures! The year 2023 also saw 221 national and 105 international patents from our Institute and we are looking to closing this current financial year with 366 patents, to account for 'a patent a day'.

Towards promoting inter-disciplinary research and exploring new frontiers, a Department of Medical Sciences and Technology was launched in May 2023, a School of Sustainability in Oct 2023, a Department of Data Science and Artificial Intelligence in Nov 2023 and a new Interdisciplinary Dual Degree program on Quantitative Finance in Dec 2023 through the synergy of the departments of Management Studies, Computer Science and Engineering and Mathematics. Our School of Sustainability has signed MoUs for collaborations with Tel Aviv University, Israel and Technische Universität Dresden, Germany, with the aim of being recognized as a leader for sustainability teaching and research in the global south.

Lofty ambitions and achievements are impossible without the deep-rooted faith and support of alumni and well-wishers like yourself. We are indebted to you for your bountiful, impactful contributions and the faith reposed on us. On behalf of IIT Madras, I express my deepest gratitude for continuing to strengthen the Institute. Together with your support, we are confident of building an IIT Madras that is more inclusive, diverse, and seized of tomorrow's needs to be nationally and globally relevant.

Thank you!

# DEAN'S MESSAGE



## **Prof. Mahesh Panchagnula** **Dean, Alumni and Corporate Relations, IITM**

Greetings from the Office of Alumni and Corporate Relations!

Please accept my sincere appreciation for the unwavering support you continue to provide to IIT Madras. Your generosity is the cornerstone of our success, and we are truly grateful for your commitment to the causes that are important to the students and faculty of IIT Madras. This report is a testament to the profound impact your contributions have had –by transforming the lives of students, supporting research, augmenting Institute infrastructure, enhancing learning or through supporting other myriad causes. Your trust in us propels our ambitions, and we are committed to ensuring that your donations are utilized to their fullest potential.

In a world evolving rapidly in science and technology, we have set ambitious goals for ourselves. Your enduring enthusiasm and support provide fillip to our efforts. IIT Madras stands as a beacon of diversity, sustainability, innovation and research excellence. While we have transformed over the years, our commitment to being a premier institute in the country and abroad, remains steadfast, attracting the brightest minds from across the globe. I cordially invite you to visit the campus, witness first-hand the salutary impact of your contributions, and observe the Institute's growth and evolution over the years.

Your generous gifts have made an incredible difference in our Institute's aspirations – Thank you! Your continued partnership is invaluable as we navigate the exciting journey ahead, shaping the future of India and the world together.





**DR. PINAKIN C. CHAUBAL**  
**1978/BT/MT**

Dr. Pinakin Chaubal has an impressive academic background with a BTech from Indian Institute of Technology Madras, MS from Missouri University of Science and Technology and PhD from the University of Utah. Currently, he serves as the Vice President and Chief Technology Officer at ArcelorMittal. Dr. Chaubal is an accomplished leader with extensive experience in organizing research and development teams. He is an expert in developing strategies to drive technological innovations aligned with organizational goals. Dr. Chaubal has gained AISTech recognition for excellence in iron-making and best paper publications

Dr. Chaubal has generously contributed towards EG Ramachandran Institute Chair, 1978 Batch RUBY Reunion - Prakash Faculty Fellowship and IIT M Foundation Alumni Endowment Fund

## SUMMARY OF YOUR CONTRIBUTIONS

1978 Batch  
Ruby Reunion  
Prakash Faculty  
Fellowship

EG Ramachandran  
Institute Chair

IITM Foundation  
Alumni Endowment  
Fund (Unrestricted)

# INSTITUTE CHAIR

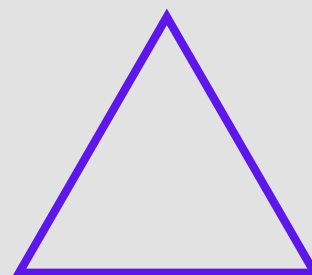
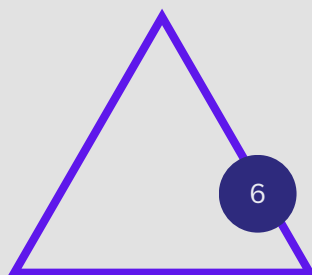
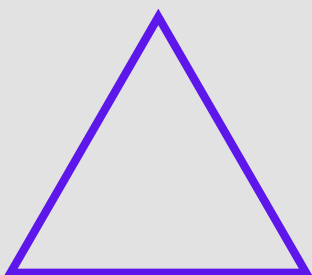
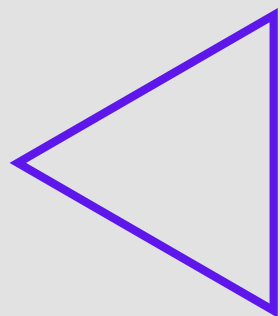
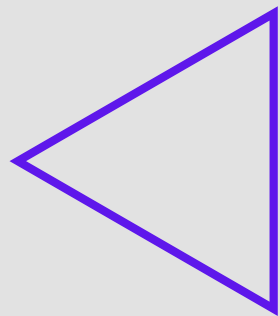
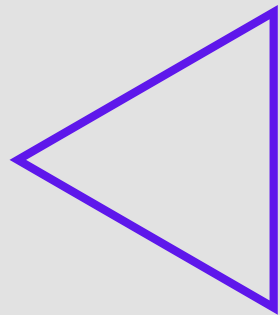
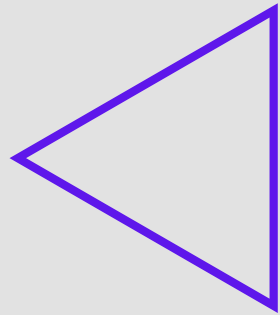
## Introduction

The appointment to an endowed chair, also known as a professorship, is a prestigious recognition bestowed upon distinguished professors who have achieved remarkable excellence in research, technology development, teaching, and service within their academic institution, nation, and profession. At IIT Madras, the appointment to an endowed chair signifies the exceptional contributions made by faculty members in advancing knowledge and pedagogy.

Endowed chairs carry a significant level of prestige and serve as a testament to the expertise and leadership of the appointed professors. They attract exceptionally talented students and researchers to the institution, ensuring a bright future for the academic community. The endowment associated with these chairs provides various benefits such as competitive salaries, honoraria, accommodation, and additional resources to facilitate visits and engagements with other scholars. Beyond the achievements that have earned them their professorship, those appointed to endowed chairs must have demonstrated outstanding leadership in their respective fields.

The establishment of endowed chairs is not unique to IIT Madras as many exceptional educational institutions worldwide recognize the importance of these positions. By honouring esteemed professors with endowed chairs, these institutions enhance their reputation, foster an environment conducive to groundbreaking research, and attract exceptional talent.

In essence, endowed chairs represent an integral and indispensable element of IIT Madras and numerous exceptional educational institutions, serving as a testament to their excellence, capacity for innovation, and commitment to shaping the future of education and research.



# EG RAMACHANDRAN INSTITUTE CHAIR



Prof. EG Ramachandran

## Introduction:

Generous contributions were received from several alumni for the E. G. Ramachandran Institute Chair Professorship. Prof. E. G. Ramachandran was one of the first Professors and Head of the Department of Metallurgical Engineering. A great teacher and scientist, he has mentored several generations of metallurgists.

Prof. M. Kamaraj has over 15 years of research and academic experience and has also published more than 100 papers in various international journals. He is a member in professional bodies like the Indian Institute of Metals, Indian Welding Society, Indian Institute of Welding, & ISNT, and the ASM International Chennai chapter. Prof. M. Kamaraj has published a total of 2 books on Surface Technology and Surface Modified Biomedical Titanium Alloys. He also obtained one patent for the Processing of high entropy alloys with exceptionally good high temperature oxidation properties. His research activities include the following

- Creep deformation and fracture mechanisms of Thermal sprayed coatings and Modified 9Cr-1Mo Steels with and without welded joints
- Development of Wearsurfacing materials; Tribological tests on weld deposits (Plasma Transferred Arc, Plasma Spray, HVOF processes etc.)
- Studies of the relationships between processing, microstructure, deformation and fracture processes in advanced materials
- Fretting fatigue of structural materials and Bio-implant materials
- Development of Marine propeller materials

## Chair Occupant



**Prof. Kamaraj**  
Department of Metallurgical and  
Material Engineering

## Academic Background

- » Master of Science in Materials Science (1984), PSG Tech
- » Master of Technology in Metallurgical Engineering (1986), KREC
- » Ph.D. in Metallurgical Engineering from the Indian Institute of Technology Madras

## Research Interests

- » High-temperature deformation of behavior of advanced materials
- » Wear behavior of coatings, and Inter-metallic reinforced PM based composites
- » Fretting Fatigue behavior of Bio-medical implant materials

## Awards and Recognitions

- » **Sudarshan Bhat Memorial prize** for the best Ph.D. thesis in the department of Metallurgical Engineering, IITM (1990)
- » **STA Post-Doctoral Fellowship:** National Institute of Industrial Safety, Tokyo





# 1978 Silver Reunion - Prakash Faculty Fellowship

The Faculty Externship Program is for the faculty who travel abroad for short durations to universities across the globe mainly for research purpose.

The Class of 1978 during their Ruby Reunion unanimously contributed towards this faculty externship program and named it “Prakash faculty Externship” in memory of their batchmate Prof. K. Prakash.



**Prof. Prakash Krishnaswami**



## About Prof. Prakash Krishnaswami

Prof. K. Prakash was from the Batch of 1978 of IIT Madras. He is addressed as ‘An incredible human being’. Prof. Prakash was a faculty at the University of Kansas and for a very short tenure he was a faculty at IIT Madras . He has always been selfless and helpful. He was always admired by others for his kindness and compassion.

## Objectives of the Program

- ◆ A vital intention of this program is to enable a faculty member’s first visit to the world’s best research institutions abroad
- ◆ To create a virtuous cycle by increasing collaboration, improving the quality of research.
- ◆ To improve the reputation of our faculty and institute by paving the way to attract new faculty and institutions interested in collaborating with IIT Madras in the future.

## Support provided to the Faculty

- ◆ This program will support expenses related to local hospitality as well as some local travel of the faculty.
- ◆ The cost of an externship per faculty will be between USD 6K to USD 8K depending upon the grant requested by the faculty.
- ◆ The interest from the endowment fund provided by the 1978 batch Ruby reunion will support some faculty members every year for their Externship in the name of “Prakash Fellowship”.

# Testimonial of Beneficiaries



**Prof. K. G. Pradeep**  
**Department of Metallurgical &  
Materials Engineering**

He is scheduled to travel to Japan, where he will be engaged in activities related to isotope research as an enabler for thermomechanical processing of metallic materials especially steels via in-situ processing inside an electron microscope. The work will provide detailed understanding for sustainable processing of metallic materials, while controlling the microstructure evolution critical for mechanical strength and service performance.

**Prof. Shivananju Bannur  
Nanjunda**  
**Department of Electrical  
Engineering**



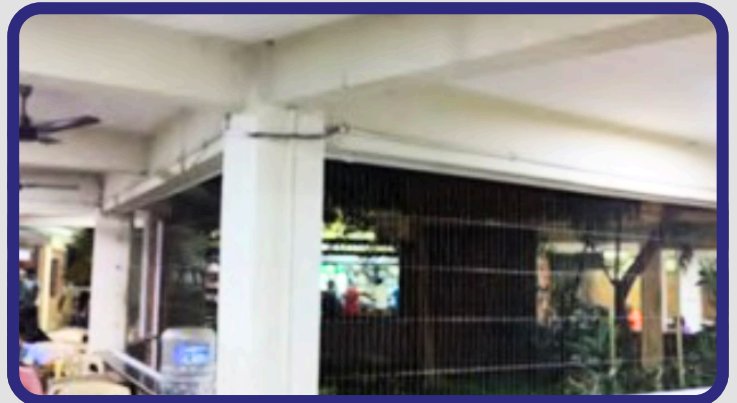
He will visit Stanford University and Inscopix in California, USA, to build on his skills in photonics, optical biosensors, optical fiber technology and nano-materials by obtaining training on implementing optogenetics and neural imaging. This will contribute to the growth of his research program in optogenetics.

# IITMF Alumni Endowment Fund

The interest accrued from this endowment is supported to the below causes:

- Women Leading India
- BR Ambedkar Memorial Endowment
- Monkey proofing work at Quark building
- NASA May day Celebration
- Student Travel Grant
- Arrival kit for Freshers
- Monkey proof waste bin
- Research and Education

Monkey Proofing Work at Quark Building

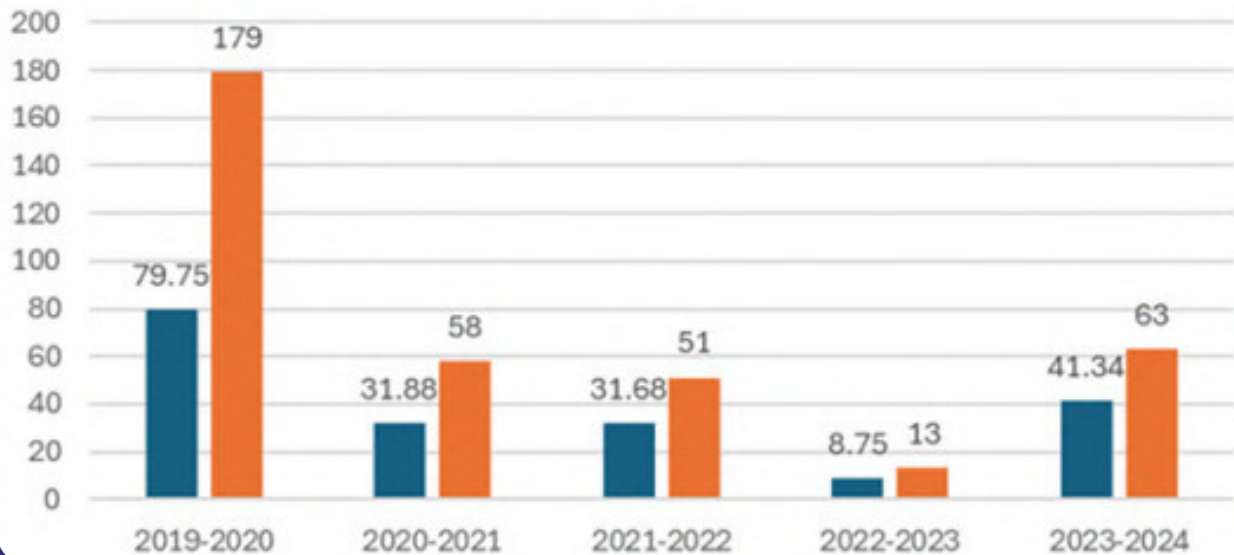


Monkey Proof Waste Bin

NASA May Day Celebrations



## Student Travel Grant



The goal of this travel grant is to facilitate the professional development of undergraduate and graduate students/research scholars and faculty by supporting their travel for attending professional meetings. This also supports exchange programs, summer schools, and joint doctoral programs which provide an opportunity for the recipient to present his/her own research.



# We are grateful to you and your Family!

## Dr. Pinakin C. Chaubal



We express our heartfelt gratitude for your continued and generous support to IIT Madras throughout the years. We trust that you take great pride in your bond with IIT Madras and the unwavering dedication it has demonstrated towards academic and research excellence since the time of your association.

Your invaluable contributions, alongside the support of your family, have played a pivotal role in facilitating this remarkable growth. We are privileged to have you and your family walking with us along this journey. We extend our best wishes to you and your family. We thank you for your continued support to your alma mater.



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[www.iitm.ac.in](http://www.iitm.ac.in)

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August 2024